

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn) A metal-based carbon fiber composite material obtained by sintering of metal and carbon fiber, the composite material comprising 10 to 80% by weight of the carbon fiber based on a total weight of the composite material and the composite material being sintered at 70% or more of ideal density and the carbon fiber is continuously aligned from one end to the other end of the composite material.
2. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 1, wherein the carbon fiber is selected from the group consisting of pitch-based carbon fiber, PAN-based carbon fiber, vapor-phase grown carbon fiber, carbon nanotube and nanotube/nanofiber twisted wire.
3. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 1, wherein the metal is selected from the group consisting of copper, aluminum, magnesium and their alloys.
4. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 3, wherein the metal is aluminum or its alloy, and the composite material has a density of 2.6g/cm³ or less.
5. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 3, wherein the metal is copper or its alloy and the composite material has a density of 6.8g/cm³ or less.
6. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 3, wherein the metal is magnesium or its alloy and the composite material has a density of 2.1g/cm³ or less.

7. (Withdrawn) The metal-based carbon fiber composite material as claimed in Claim 1, wherein the carbon fiber is aligned.

8. (Withdrawn) The metal-based carbon fiber composite material, as claimed in Claim 21, wherein a thermal conductivity is 300W/mK or more in the arrangement direction of the carbon fiber.

9. (Withdrawn) Electronic equipment with semiconductors, wherein the metal-based carbon fiber composite material as claimed in Claim 1 is used as a heat-dissipating member.

10. (Withdrawn) A power module, wherein the metal-based carbon fiber composite material as claimed in Claim 1 is used as a heat-dissipating member.

11. (Currently Amended) A method for producing a metal-based carbon fiber composite material, comprising the steps of:

~~step 1: obtaining a metal fiber mixture by physically mixing immersing carbon fiber with metal powder into a suspension wherein metal powder is dispersed in a solvent, wherein the carbon fiber has a fiber length of 100 mm or more;~~

~~step 2: filling the metal fiber mixture into a jig, while the metal fiber mixture is aligned, and~~

~~step 3: setting the jig in the air, in a vacuum or in an inert gas atmosphere and directly supplying pulse electric current to the metal fiber mixture, with applying the pressurea pressure to the metal fiber mixture through the jig, to effect sintering by the heat generated therefrom.~~

12. (Original) The method for producing a metal-based carbon fiber composite material as claimed in Claim 11, wherein the carbon fiber is selected from the group consisting of pitch-based carbon fiber, PAN-based carbon fiber, vapor-phase grown carbon fiber, carbon nanotube, and nanotube/nanofiber twisted wire.

13. (Original) The method for producing a metal-based carbon fiber composite material as claimed in Claim 11, wherein the metal is selected from the group consisting of copper, aluminum, magnesium and their alloys.

14-19. (Canceled)

20. (Currently Amended) The method for producing a metal-based carbon fiber composite material as set forth in Claim 11, ~~wherein, among the carbon fibers, those which are~~ wherein the carbon fiber is continuous from one end of the composite material to the other ~~end have end, and has~~ the fiber length of the same as the dimension of the composite material; ~~and the step 1 is conducted by a physical mixing method in which the direction of fiber is maintained.~~

21. (Withdrawn) The metal-based carbon fiber composite material as set forth in Claim 1, comprising 45 to 80 % by weight of the carbon fiber, based on the total weight of the composite material.